

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529035

Luminaire Tested: **GALN-SA4A-830-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-830-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9290 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

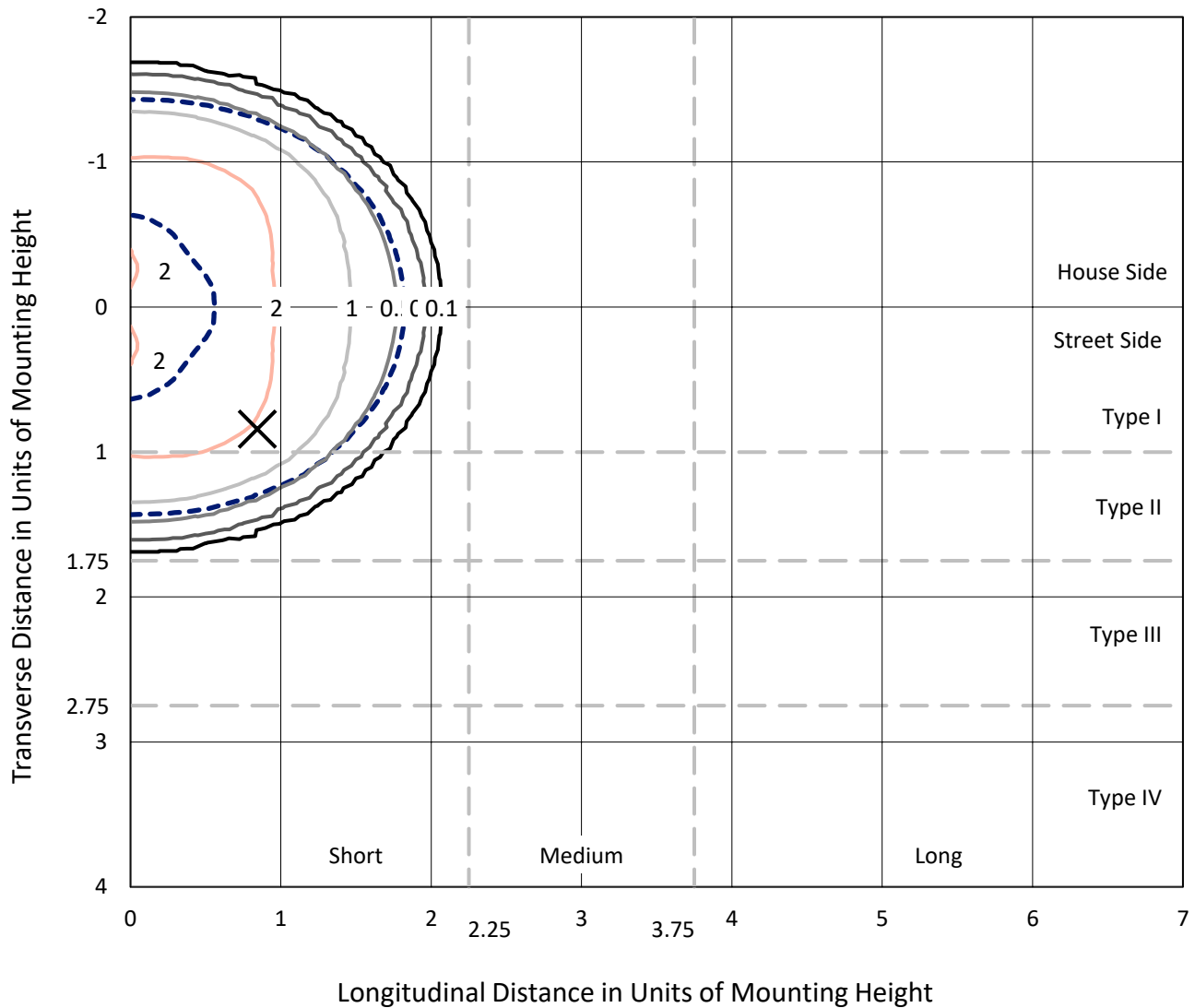


REPORT NUMBER: P529035

CATALOG NUMBER: GALN-SA4A-830-U-RW-GRSBK

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

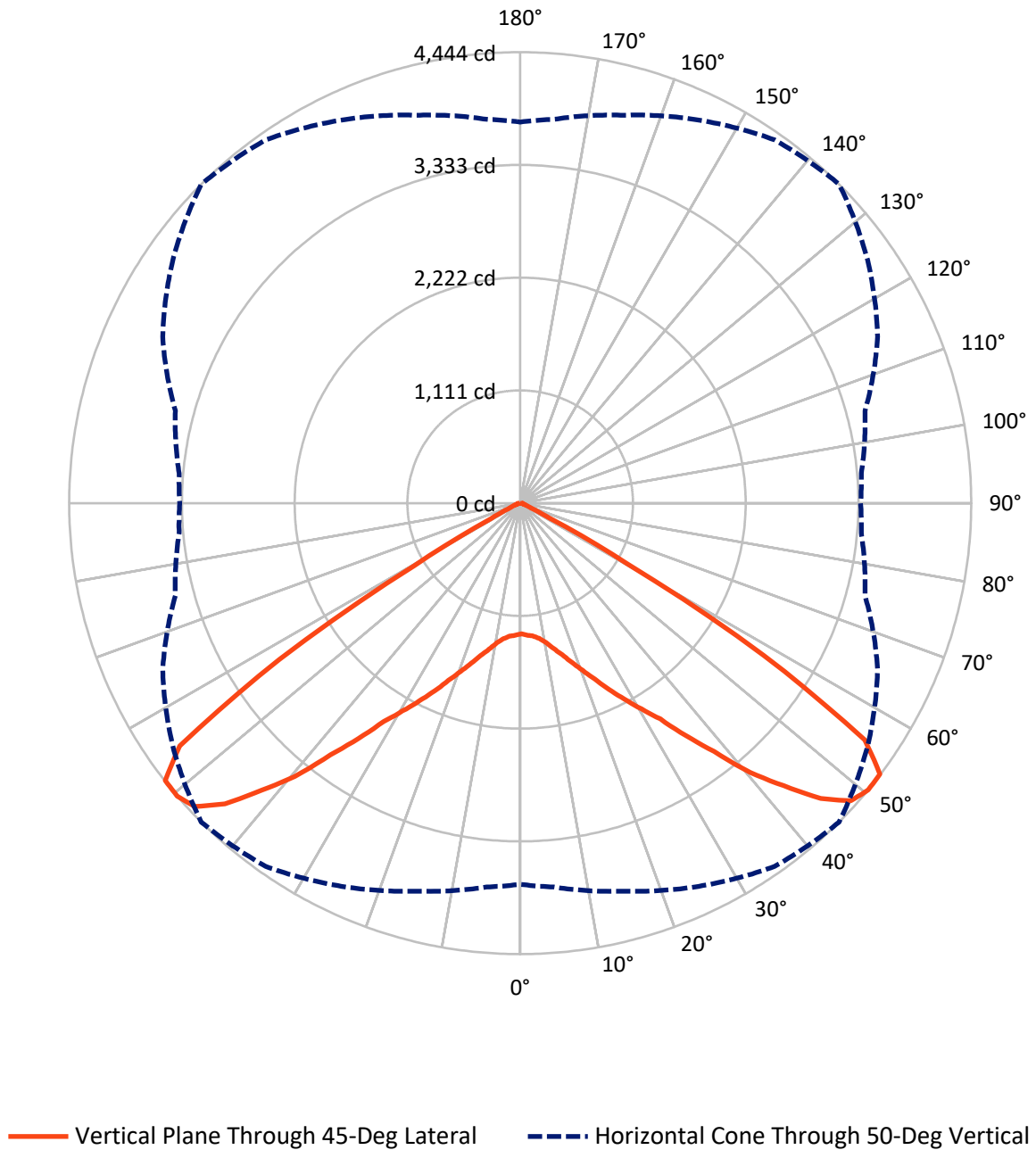


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P529035

CATALOG NUMBER: GALN-SA4A-830-U-RW-GRSBK

## Luminous Intensity Polar Plot



REPORT NUMBER: P529035

CATALOG NUMBER: GALN-SA4A-830-U-RW-GRSBK

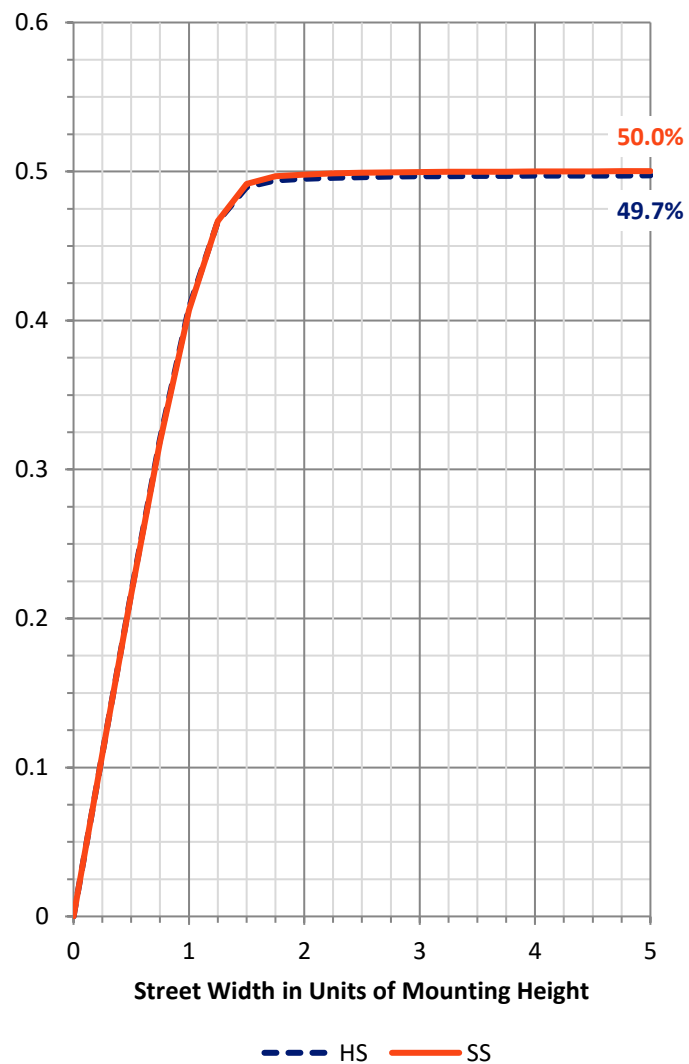
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4645.0   | 0.0    | 4645.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4645.0   | 0.0    | 4645.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9290.0   | 0.0    | 9290.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.1  | 1.4       |
| 10°-20°   | 441.6  | 4.8       |
| 20°-30°   | 902.0  | 9.7       |
| 30°-40°   | 1720.0 | 18.5      |
| 40°-50°   | 2898.5 | 31.2      |
| 50°-60°   | 2764.2 | 29.8      |
| 60°-70°   | 385.9  | 4.2       |
| 70°-80°   | 36.9   | 0.4       |
| 80°-90°   | 12.8   | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 9290.0 | 100.0     |
| 0°-180°   | 9290.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P529035

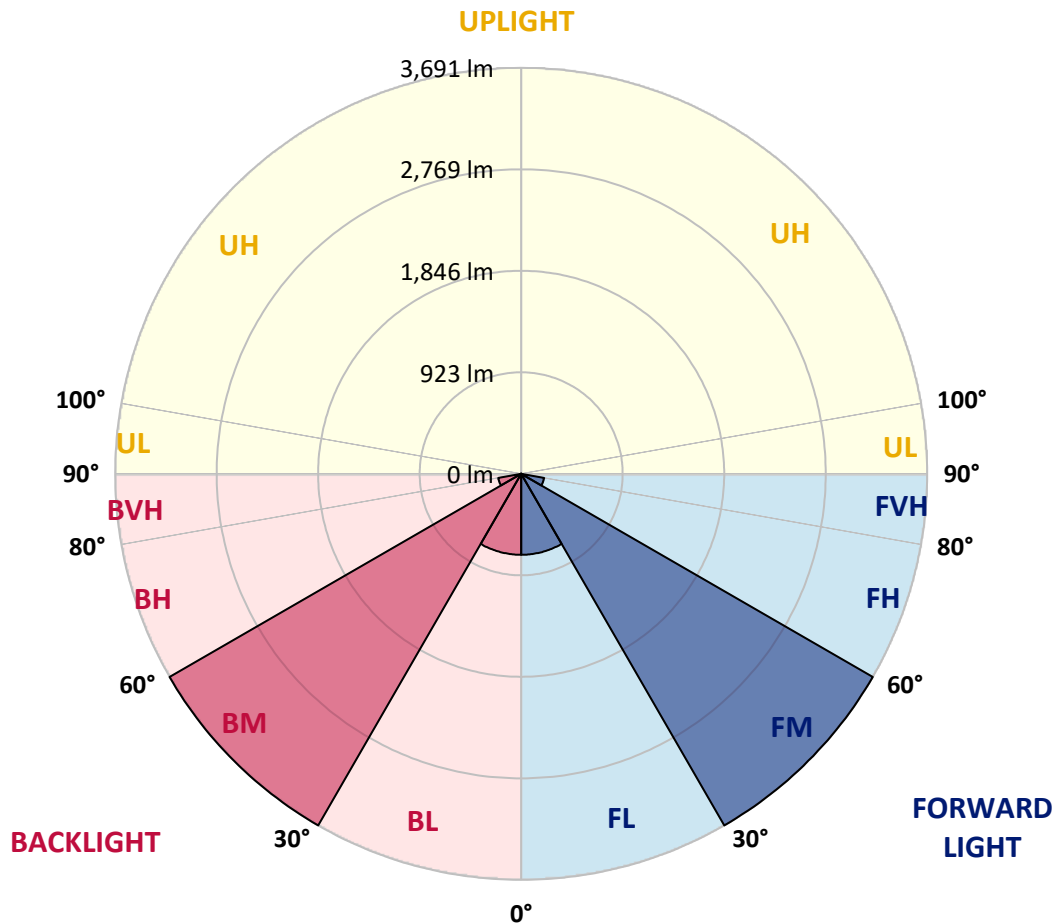
CATALOG NUMBER: GALN-SA4A-830-U-RW-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 735.9  | 7.9       |                         |      |        |
| FM   | (30°-60°)   | 3691.4 | 39.7      |                         |      |        |
| FH   | (60°-80°)   | 211.4  | 2.3       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 6.4    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 735.9  | 7.9       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 3691.4 | 39.7      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 211.4  | 2.3       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 6.4    | 0.1       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**

Type V Short



REPORT NUMBER: P529035

CATALOG NUMBER: GALN-SA4A-830-U-RW-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 | 1288.0 |
| 2.5°  | 1283.3 | 1283.3 | 1281.7 | 1294.2 | 1288.0 | 1302.0 | 1300.5 | 1305.1 | 1309.8 | 1308.3 | 1320.8 |
| 5°    | 1272.3 | 1270.8 | 1270.8 | 1284.8 | 1298.9 | 1314.5 | 1328.6 | 1338.0 | 1353.6 | 1353.6 | 1369.2 |
| 7.5°  | 1283.3 | 1275.5 | 1286.4 | 1292.6 | 1319.2 | 1345.8 | 1369.2 | 1388.0 | 1423.9 | 1436.4 | 1431.8 |
| 10°   | 1286.4 | 1295.8 | 1303.6 | 1322.3 | 1355.2 | 1395.8 | 1416.1 | 1463.0 | 1503.7 | 1531.8 | 1538.0 |
| 12.5° | 1306.7 | 1320.8 | 1342.7 | 1388.0 | 1417.7 | 1470.8 | 1499.0 | 1544.3 | 1600.6 | 1631.8 | 1653.7 |
| 15°   | 1345.8 | 1350.5 | 1378.6 | 1436.4 | 1500.5 | 1549.0 | 1592.8 | 1625.6 | 1680.3 | 1716.2 | 1717.8 |
| 17.5° | 1395.8 | 1416.1 | 1455.2 | 1509.9 | 1577.1 | 1649.0 | 1683.4 | 1719.4 | 1739.7 | 1788.1 | 1799.1 |
| 20°   | 1495.8 | 1499.0 | 1536.5 | 1608.4 | 1692.8 | 1758.4 | 1783.4 | 1802.2 | 1794.4 | 1844.4 | 1853.8 |
| 22.5° | 1589.6 | 1592.8 | 1639.6 | 1736.6 | 1827.2 | 1883.5 | 1894.4 | 1883.5 | 1860.0 | 1896.0 | 1899.1 |
| 25°   | 1685.0 | 1713.1 | 1747.5 | 1844.4 | 1956.9 | 2032.0 | 2033.5 | 2003.8 | 1955.4 | 1961.6 | 1977.3 |
| 27.5° | 1833.5 | 1853.8 | 1889.7 | 1978.8 | 2102.3 | 2186.7 | 2172.6 | 2136.7 | 2074.2 | 2078.9 | 2074.2 |
| 30°   | 2007.0 | 2025.7 | 2055.4 | 2169.5 | 2260.2 | 2352.4 | 2372.7 | 2338.3 | 2244.5 | 2224.2 | 2247.7 |
| 32.5° | 2216.4 | 2243.0 | 2297.7 | 2402.4 | 2479.0 | 2535.3 | 2549.3 | 2536.8 | 2449.3 | 2441.5 | 2457.1 |
| 35°   | 2471.2 | 2507.1 | 2557.2 | 2649.4 | 2711.9 | 2813.5 | 2813.5 | 2771.3 | 2691.6 | 2701.0 | 2699.4 |
| 37.5° | 2740.0 | 2793.2 | 2871.3 | 2965.1 | 3049.5 | 3104.2 | 3087.0 | 3051.1 | 2971.4 | 2951.0 | 2971.4 |
| 40°   | 3077.7 | 3104.2 | 3202.7 | 3324.6 | 3427.8 | 3490.3 | 3416.8 | 3338.7 | 3148.0 | 3177.7 | 3232.4 |
| 42.5° | 3385.6 | 3427.8 | 3502.8 | 3637.2 | 3754.5 | 3806.0 | 3718.5 | 3563.8 | 3334.0 | 3310.5 | 3351.2 |
| 45°   | 3648.2 | 3693.5 | 3792.0 | 3984.2 | 4107.7 | 4153.0 | 3959.2 | 3709.1 | 3446.5 | 3387.1 | 3404.3 |
| 47.5° | 3823.2 | 3846.7 | 3984.2 | 4167.1 | 4279.6 | 4382.8 | 4104.6 | 3809.2 | 3499.7 | 3387.1 | 3380.9 |
| 50°   | 3756.0 | 3796.7 | 3957.7 | 4165.5 | 4370.3 | 4443.8 | 4178.0 | 3885.8 | 3516.9 | 3373.1 | 3354.3 |
| 52.5° | 3335.6 | 3405.9 | 3585.6 | 3865.4 | 4174.9 | 4437.5 | 4279.6 | 3860.7 | 3510.6 | 3387.1 | 3415.3 |
| 55°   | 2321.1 | 2322.7 | 2541.5 | 2954.2 | 3501.2 | 4120.2 | 4131.2 | 3888.9 | 3551.3 | 3474.7 | 3476.2 |
| 57.5° | 933.1  | 980.0  | 1147.3 | 1561.5 | 2066.4 | 2829.1 | 3363.7 | 3607.5 | 3555.9 | 3537.2 | 3585.6 |
| 60°   | 236.0  | 237.6  | 289.2  | 440.8  | 726.8  | 1212.9 | 1761.6 | 2383.7 | 2744.7 | 2868.2 | 2885.4 |
| 62.5° | 120.4  | 121.9  | 134.4  | 156.3  | 198.5  | 325.1  | 578.3  | 917.5  | 1305.1 | 1502.1 | 1553.7 |
| 65°   | 98.5   | 98.5   | 106.3  | 117.2  | 118.8  | 125.0  | 150.1  | 214.1  | 311.0  | 353.3  | 357.9  |
| 67.5° | 75.0   | 75.0   | 81.3   | 87.5   | 90.7   | 89.1   | 86.0   | 89.1   | 107.9  | 103.2  | 100.0  |
| 70°   | 46.9   | 48.5   | 51.6   | 57.8   | 61.0   | 62.5   | 64.1   | 67.2   | 76.6   | 79.7   | 76.6   |
| 72.5° | 28.1   | 28.1   | 29.7   | 34.4   | 39.1   | 42.2   | 46.9   | 50.0   | 54.7   | 62.5   | 61.0   |
| 75°   | 12.5   | 12.5   | 15.6   | 20.3   | 25.0   | 29.7   | 34.4   | 39.1   | 42.2   | 46.9   | 48.5   |
| 77.5° | 3.1    | 4.7    | 7.8    | 14.1   | 18.8   | 25.0   | 31.3   | 36.0   | 39.1   | 39.1   | 37.5   |
| 80°   | 1.6    | 1.6    | 6.3    | 10.9   | 20.3   | 26.6   | 34.4   | 37.5   | 42.2   | 39.1   | 34.4   |
| 82.5° | 1.6    | 1.6    | 6.3    | 10.9   | 18.8   | 26.6   | 36.0   | 40.6   | 43.8   | 39.1   | 32.8   |
| 85°   | 0.0    | 1.6    | 4.7    | 9.4    | 15.6   | 18.8   | 15.6   | 10.9   | 6.3    | 6.3    | 4.7    |
| 87.5° | 0.0    | 0.0    | 1.6    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)